

O'Bryen, Barbara

From: Goldberg, Jeanine
Sent: Tuesday, January 14, 2003 2:33 PM
To: O'Bryen, Barbara
Subject: 09/823,649- RT transcriptase

Please search SEQ ID NO: 1-7
Please search for a nucleic acid encoding SEQ ID NO 1-7

THANK YOU

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BOB
1-22-03

24-1-2005

L10 ANSWER 1 OF 19 DGENE (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: ABB99024 Protein DGENE
TITLE: A novel dipeptaminopeptidase IV associated protein (DPPX)
47.41 polypeptide, and the polynucleotide which encodes it,
useful for treating several diseases e.g. nerve system
function disorders -
INVENTOR: Mao Y; Xie Y
PATENT ASSIGNEE: (BODE-N)BODE GENE DEV CO LTD SHANGHAI.
PATENT INFO: CN 1342670 A 20020403 36p
APPLICATION INFO: CN 2000-125176 20000912
PRIORITY INFO: CN 2000-125176 20000912
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
OTHER SOURCE: 2002-520750 [56]
AN ABB99024 Protein DGENE
AA 24 A; 16 R; 26 N; 30 D; 0 B; 10 C; 13 Q; 42 E; 0 Z; 21 G; 10 H; 19 I;
42 L; 27 K; 4 M; 27 F; 17 P; 38 S; 18 T; 5 W; 14 Y; 28 V; 0 Others
SQL 431
SEQ
1 mvallieyvc kalqelygvn csaedvlnld sstdekfsrh lifqlhdvaf
51 kdnihvgnfl rkilqpaldl lgsedddsap ettghgfphf seaparqgfs
101 fnkmftekat eeswtsnssk lerlgsaeqs spdlsflvvk nnmgekhlvf
151 dlgyvtrnrn frlyksskig krvalgvted nkffpiqskd vsdeyqyfls
== =====
201 slvsnvrfds tlriltceps qnkqkgvgyf nsigtsveti egfgcspype
251 vdhfvlslnv kdgikggirr wnyffpeell vydickyrwc enigrahksn
301 nimilvdlkn evwyqkchdp vckaenfkds cfplpaevcl lflfkeeeef
351 ttdeadetrn netqnphkps psrlstgasa davwdngidd ayfleteada
401 elaeaaensl lsynsevdei pdeliievlg e
HITS AT: 169-179

L10 ANSWER 2 OF 19 DGENE (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: ABP05409 Protein DGENE
TITLE: Novel human polypeptides and polynucleotides useful for
diagnosing, preventing and treating cardiovascular disease,
neurodegenerative, hyperproliferative disorders and
autoimmune disorders -
INVENTOR: Shimkets R A; Leach M D
PATENT ASSIGNEE: (CURA-N)CURAGEN CORP.
PATENT INFO: WO 2001092523 A2 20011206 999p
APPLICATION INFO: WO 2001-US10836 20010529
PRIORITY INFO: US 2000-206132P 20000530
US 2000-228716P 20000829
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-106308 [14]
AN ABP05409 Protein DGENE
AA 18 A; 8 R; 4 N; 4 D; 0 B; 1 C; 4 Q; 8 E; 0 Z; 5 G; 3 H; 4 I;
11 L; 2 K; 3 M; 2 F; 5 P; 8 S; 8 T; 0 W; 3 Y; 12 V; 0 Others
SQL 113
SEQ
1 mypklpaitd leallavsra gsisraadrm gmnqqtlstr vsraeqvlvg
51 tvferspygi katesgevvil eavpalltac adfahnveqa radnlarhlt
=====

101 vavstvaei hyp
=====

HITS AT: 95-105

L10 ANSWER 3 OF 19 DGENE (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: ABP05071 Protein DGENE
TITLE: Novel human polypeptides and polynucleotides useful for
diagnosing, preventing and treating cardiovascular disease,
neurodegenerative, hyperproliferative disorders and

autoimmune disorders -
INVENTOR: Shimkets R A; Leach M D
PATENT ASSIGNEE: (CURA-N) CURAGEN CORP.
PATENT INFO: WO 2001092523 A2 20011206 999p
APPLICATION INFO: WO 2001-US10836 20010529
PRIORITY INFO: US 2000-206132P 20000530
US 2000-228716P 20000829
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-106308 [14]
AN ABP05071 Protein DGENE
AA 7 A; 2 R; 2 N; 6 D; 0 B; 0 C; 4 Q; 6 E; 0 Z; 10 G; 1 H; 1 I;
13 L; 5 K; 1 M; 6 F; 4 P; 2 S; 5 T; 1 W; 1 Y; 6 V; 0 Others
SQL 83
SEQ

1 myfpvvgefl arrfqktnpg aiaepllgld sfawggeslk vfkldldpdgq
51 lgkkltltvg enahftlvde ddqvlaaaget gql
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HITS AT: 51-61

L10 ANSWER 4 OF 19 DGENE (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: AAM48268 Peptide DGENE
TITLE: Reverse transcribing an RNA, comprises performing a reverse
transcriptase polymerase chain reaction amplification of a
mixture using a mutant thermoactive DNA polymerase -
INVENTOR: Smith E S; Elfstrom C M; Gelfand D H; Higuchi R G; Myers T W;
Schoenbrunner N J; Wang A M
PATENT ASSIGNEE: (HOFF) HOFFMANN LA ROCHE & CO AG F.
PATENT INFO: EP 1152062 A2 20011107 23p
APPLICATION INFO: EP 2001-109341 20010412
PRIORITY INFO: US 2000-198336P 20000418
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-076891 [11]
AN AAM48268 Peptide DGENE
AA 0 A; 1 R; 0 N; 0 D; 0 B; 0 C; 0 Q; 1 E; 0 Z; 1 G; 0 H; 1 I; 2
L; 1 K; 0 M; 0 F; 0 P; 3 S; 0 T; 0 W; 0 Y; 1 V; 0 Others
SQL 11
SEQ

1 lskriglsvs e
=====

HITS AT: 1-11

L10 ANSWER 5 OF 19 DGENE (C) 2003 THOMSON DERWENT
ACCESSION NUMBER: AAB47797 peptide DGENE
TITLE: Reverse transcribing an RNA, comprises performing a reverse
transcriptase polymerase chain reaction amplification of a
mixture using a mutant thermoactive DNA polymerase -
INVENTOR: Smith E S; Elfstrom C M; Gelfand D H; Higuchi R G; Myers T W;
Schoenbrunner N J; Wang A M
PATENT ASSIGNEE: (HOFF) HOFFMANN LA ROCHE & CO AG F.
PATENT INFO: EP 1152062 A2 20011107 23p
APPLICATION INFO: EP 2001-109341 20010412
PRIORITY INFO: US 2000-198336P 20000418
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 2002-076891 [11]
AN AAB47797 peptide DGENE
AA 1 A; 1 R; 2 N; 0 D; 0 B; 0 C; 1 Q; 1 E; 0 Z; 0 G; 0 H; 1 I; 2
L; 1 K; 0 M; 0 F; 0 P; 0 S; 0 T; 0 W; 0 Y; 0 V; 1 Others
SQL 11
SEQ

1 laqnlmixrk e
=====

HITS AT: 1-11

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	8	label Ser, Thr

L10 ANSWER 6 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAB47796 peptide DGENE

TITLE: Reverse transcribing an RNA, comprises performing a reverse transcriptase polymerase chain reaction amplification of a mixture using a mutant thermoactive DNA polymerase -

INVENTOR: Smith E S; Elfstrom C M; Gelfand D H; Higuchi R G; Myers T W; Schoenbrunner N J; Wang A M

PATENT ASSIGNEE: (HOFF)HOFFMANN LA ROCHE & CO AG F.

PATENT INFO: EP 1152062 A2 20011107 23p

APPLICATION INFO: EP 2001-109341 20010412

PRIORITY INFO: US 2000-198336P 20000418

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-076891 [11]

AN AAB47796 peptide DGENE

AA 0 A; 1 R; 0 N; 0 D; 0 B; 0 C; 0 Q; 1 E; 0 Z; 1 G; 0 H; 1 I; 2 L; 1 K; 0 M; 0 F; 0 P; 3 S; 0 T; 0 W; 0 Y; 1 V; 0 Others

SQL 11

SEQ

1 lskriglsvs e

=====

HITS AT: 1-11

L10 ANSWER 7 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAB47795 peptide DGENE

TITLE: Reverse transcribing an RNA, comprises performing a reverse transcriptase polymerase chain reaction amplification of a mixture using a mutant thermoactive DNA polymerase -

INVENTOR: Smith E S; Elfstrom C M; Gelfand D H; Higuchi R G; Myers T W; Schoenbrunner N J; Wang A M

PATENT ASSIGNEE: (HOFF)HOFFMANN LA ROCHE & CO AG F.

PATENT INFO: EP 1152062 A2 20011107 23p

APPLICATION INFO: EP 2001-109341 20010412

PRIORITY INFO: US 2000-198336P 20000418

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 2002-076891 [11]

AN AAB47795 peptide DGENE

AA 0 A; 1 R; 0 N; 0 D; 0 B; 0 C; 0 Q; 1 E; 0 Z; 1 G; 0 H; 0 I; 2 L; 1 K; 0 M; 0 F; 1 P; 1 S; 0 T; 0 W; 0 Y; 2 V; 1 Others

SQL 11

SEQ

1 lsvrlgxpvk e

=====

HITS AT: 1-11

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	7	label Val, Ile


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851 lvqsasylna cllhcyfnqi rkdaalralnv aytvstqrst vfpldgvvrm
901 llfrdseeat nflnyhgltnv adgcvelnrs aflepeglck arksvfigrk
=====
951 ltvsvgeevn ggplppvprh tpvcfsnsgn kyvgeslate lpistqragg
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1001 dpaggggrged ceaevdlptl avlpqpppas satpalhvpq lapaaapsll
1051 qastqpevll pkpavpysds dlqvqvdeli qealqvdece vssagaayva
1101 aalgvsnaav edlitaattg ilrhvaeev smerqrleee kqraeeerlk
1151 qerelmltql seglaaelte ltvtecvwet csqelqsavk idqkvrvarc
1201 ceavcahlvd lflaeelfgt aketlqelqc fckylqrwre avaarkkfr
1251 qmrafpapc cvdvndrlqa lvpsaepcit eenlakglll lghagkvvgs
1301 ctrlrrlrnk tahqikvqhf hqqlrnaaw apldlpsivs ehlpmkqkrr
1351 fwklvvlvlpd veeqtpepg rilenwlkvk ftgddsmvgd igdnagdiqt
1401 lsvfntlssk gdqtvsvnvc ikvahgtlsd saldavetqk dllgtsglml
1451 llppkvksee vaeelswls allqlkqllq akpfqpalpl vvlvpssrgd
1501 sagravedgl mlqdlvsakl isdyivveip dsvndlqgtv kvsgavqwli
1551 sgcpqaldlc cqtlvqyved gisrefsrrf fhrrerrrla slpsqepsti
1601 ielfnsvlqf lasvvsseqf cdiswpvmef aevggsqllp hlhwnspehl
1651 awlkqavlqf qlpqmdlppp gapwlpvcsm viqytsqips ssqtqpvqls
1701 qaenllcrty qkwknkslsp ggqelgpsvae ipwddiitlc inhklrdwtp
1751 prlpvtleal sedgqicvyf fknllrkyhv pssweqarmq tqrelqlshg
1801 rsgmrshipp tstfptpllh vhqkgkkkee sgregslste dllrgasae
1851 llaqslsssl leekeenkrf edqlqqwlsq dsqaftestr lpilylptltv
1901 sfpdsiktqt mvktstspqn sgtgkqlrfs easgssltek lkllerliqs
1951 sraeeaaasel hlsallemvd m

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HITS AT: 947-957

L10 ANSWER 10 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAB98957 protein DGENE

TITLE: New CALPP protein the use of which is related to the treatment or the detection of autoimmune diseases -

PATENT ASSIGNEE: (SUME)SUMITOMO ELECTRIC IND CO.

PATENT INFO: JP 2001078779 A 20010327 17p

APPLICATION INFO: JP 1999-263707 19990917

PRIORITY INFO: JP 1999-263707 19990917

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

OTHER SOURCE: 2001-313372 [33]

AN AAB98957 protein DGENE

AA 144A; 107R; 54 N; 83 D; 0 B; 39 C; 111Q; 152E; 0 Z; 112G; 44 H; 57 I; 210L; 109K; 28 M; 87 F; 130P; 218S; 102T; 20 W; 25 Y; 139V; 0 Others

SQL 1971

SEQ

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1 mhpvnpgfsgs spsafavsss ttgtyqtksp frfgqpslfg qnstpsksla
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101 pgntafsfks tssvgvfpsg atfgpetgev agsgfrktef kfkplenavf
151 kpipgpesep ektqsgissg ffftshpvgg gsggltpfsf pqvtnssvts
201 ssfifskpvt sntpafaspl snqnveeeer vtsafgssn ssfstfptas
251 pgsllgepfpa nkpslrqgce eaissqveplp tlmkgklrke dqdrsprrhc
301 heaaedpdpl srgdhppdkr pvrlnrprgg tlfgrtqgev fksnkeagrl
351 gskseskesgf aepgesdhaa vpggsqstmv psrlpavtke eesrdeked
401 slrgksvrqs krreewiysl ggvsslelta iqcknipdyl ndrailekhf
451 skiakvqrvf trrskklavi hffdhasaal arkkgkglhk dvvifwhkkk
501 ispskklfpl keklgeseeas qgiedspfqh splskpivrp aagsllskss
551 pvkksplllm hqfeadpfdg gsegseglgs cvsslstlig tvadtseeky
601 rlldqrdrim rgarvkrtdl dkarafvgtc pdmcpekery lretrsqlsv
651 fevvpqtdqv dhaaavkeys rssadqeepl phelrpsavl srtmdylvtq
701 imdqkegsrl dwydfvwnrt rgirkditqg hlcdpltvsl iekctrfhfh
751 cahfmceepm ssfdakinne nmtkclqlsk emyqdlrnkg vfcaseaefq
801 gynvllnlmk gdilrevqqf hpdvrnspev nfavqafaal nsnnfvrffk
851 lvqsasylna cllhcyfnqi rkdaalralnv aytvstqrst vfpldgvvrm
901 llfrdseeat nflnyhgltnv adgcvelnrs aflepeglck arksvfigrk
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951 ltvsvgeevn ggplppvprh tpvcfsnsgn kyvgeslate lpistqragg

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1101 aalgvsnaav edlitaattg ilrhvaaeev smerqrleee kqraeeerlk
1151 qerelmltql seglaaelte ltvtecvwet csqelqsavk idqkvrvarc
1201 ceavcahlvd lflaeeifqt aketlqelqc fckylqrwre avaarkkfrr
1251 qmrafpapc cvdvndrlqa lvpsaecpit eenlakglll lghagkvgvs
1301 ctrlrrlrnk tahqikvqhf hqqlrnaaw apldlpsivs ehlpmkqkrr
1351 fwklvvlvpd veeqtpepg rilenwlkvk ftgddsmvgd igdnagdiqt
1401 lsvfntlssk gdtvsvnvc ikvahgtlsd saldavetqk dllgtsglml
1451 llppkvksee vaeelswls allqlkqllq akpfqpalpl vvlvpsrrgd
1501 sagravedgl mlqdlvsakl isdyivveip dsvndlggtv kvsgavqwli
1551 sgcpqaldlc cqtlvqyved gisrefsrrf fhrrerrrla slpsqepsti
1601 ielfnsvlqf lasvvsseql cdiswpvmef aevggsqllp hlhwnspehl
1651 awlkqavlgf qlpqmdlppp gapwlpvcsm viqytsqips ssqtqpvlqs
1701 qaenllcrty qkwnkslsp gqelgpsvae ipwddiitlc inhklrdwtp
1751 prlpvtleal sedgqicvyf fknllrkyhv pssweqarmq tqrelqlshg
1801 rsgmrslhnp tstfptllh vhqgkqkkee sgregslste dllrgasae
1851 llaqslsssl leekeenrfe edqlqqwlsq dsqaftestr lplylpqtlv
1901 sfpdsiktqt mvktstspqn sgtgkqlrfs easgssltek lkllerliqs
1951 sraeeaaasel hlsallemvd m

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HITS AT: 947-957

L10 ANSWER 11 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAB22943 Protein DGENE

TITLE: GANP proteins participating in signal conversion of abnormal B cell differentiation in autoimmune state and having kinase activity, useful in the study of autoimmune mechanisms -

INVENTOR: Sakaguchi N; Kuwahara K

PATENT ASSIGNEE: (SUME)SUMITOMO ELECTRIC IND CO.

PATENT INFO: WO 2000050611 A1 20000831

91p

APPLICATION INFO: WO 1999-JP4634 19990827

PRIORITY INFO: JP 1999-47035 19990224

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

OTHER SOURCE: 2000-549411 [50]

AN AAB22943 Protein DGENE

AA 143A; 113R; 59 N; 90 D; 0 B; 42 C; 105Q; 153E; 0 Z; 118G; 48 H; 58 I; 214L; 101K; 36 M; 88 F; 130P; 212S; 94 T; 19 W; 24 Y; 133V; 0 Others

SQL 1980

SEQ

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1 mnptnpsfsgq qpsafsasss nvgtlpskpp frfgqpslfg qnstlsqkss
51 gfsqvssfpa ssgvshsssv qtlgftqtss vgpfsgleht stfvatsgpps
101 sssvlngtgf sfksptsvga fpstsafgqe ageivnsgfg ktefsfkple
151 navfkpilga esepektqsq iasgfftfs pssapggla pfsfpqvtss
201 sattsntfts kpvssnnsls aftpalsnqn veeekrgpks ifgssnnsfs
251 sfpvssavlg epfqaskagv rggceeavsq veplpslmkg lkrkedqdrs
301 prrhghepae dsdplsrgdh ppdkrpvrln rprggtlfg rtiqdvfksnk
351 evgrlgnkea kketgfvesa esdhmaipgg nqsvlapsri pgvnkeeete
401 srekksdlr gtparqsnrs estdslggl psevtaiqck nipdylnrt
451 ilenhfgkia kvqriftrrs kklavvhffd hasaalarkk gkslhkdmai
501 fwhrkkispn kkpfsllkek pgdgevspst edapfqhspl gkaagrtgas
551 slnksspvk kpsllkahqf egdsfidsase gseglgpcvl slstligtva
601 etskekyrll dqrdrimrqa rvkrtldlka rtfvgtcldm cpekerymre
651 trsqslsvfev vpgtdqvda aavkeysrss adqeeplphe lrpplvlsrt
701 mdylvtqimd qkegslrdwy dfvwnrtgi rkdtiqqhlc dpltsvliek
751 ctrfhihcah fmceepmssf dakinnenmt kclqslkemy qdlrnkgvfc
801 aseaeffgyn vllslnkqdi lrevqqfhpa vrnssevkfa vqafaalnsn
851 nfvrrfklvq sasylncall hcyfsqirkd alralnfayt vstqrstifp
901 ldgvvrmlf rdsceatdfl tchgltsvsg cvelnrsaf lpeglsktrk
951 svfitrkltv svgeivnggp lppvprhtpv csfnsqnkyi geslaaelpv
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1001 stqrpgsdtv gggrgeecgv epdaplsslp qslpapapsp vplppvlalt
1051 psvapslflq svqpeppppe pvpmysdedl aqvvdeliqe alqrdceevg

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1101 sagaayaaaa lgvsnaamed lltaattgil rhiaaeevsk ererregerq
1151 raeerlrlkqe relvlseisq glavelmerv mmevretcs qelknavetd
1201 qrvrvarcce dvcahlvdlf lveeifqtak etlqelqcfc kylqrwreav
1251 tarkklrrqm rafpaapccv dvsdrlrala psaecpiaee nlarglldlg
1301 hagrllgisc rlrllrnkta hqmkvqhfyq qlldsvawas ldpslvaeh
1351 lpgrqehvfw klvlvlpdve eqspescgri lanwlkvkfm gdegsvddts
1401 sdaggiqtls lfnsllsskgd qmisvncik vahgalsdga idavetqkdl
1451 lgasglmlll ppkmksedma eedvywlsal lqlkqllqak pfqpalplvv
1501 lvpspggdav ekevedglml qdlvsaklis dytvteipdt indlqgstkv
1551 lqavqwlvsh cphsldlccq tliqyvedgi ghefsgrffh drrerrlggf
1601 asqepgaie lfnsvlqfla svvsseqlcd lswpvtefae aggsrllphl
1651 hwnapehlaw lkqavlgfql pqmdlplga pwlpvcsmvv qyasqipssr
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1751 hklrdwtppr lpvtsealse dgqicvyffk ndlkkdyvpl sweqarlqtq
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1851 lmr gasaeel laqclsssl1 lekeenkrfe dqlqqwlsed sgaftdltsl
1901 plylpqtlvs lshtiepvkm tsvttspqsd mmreqlqlse atgtclgerl
1951 khlerlirss reeevaselh lsalldmvdi

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HITS AT: 954-964

L10 ANSWER 12 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAB22942 Protein DGENE

TITLE: GANP proteins participating in signal conversion of abnormal B cell differentiation in autoimmune state and having kinase activity, useful in the study of autoimmune mechanisms -

INVENTOR: Sakaguchi N; Kuwahara K

PATENT ASSIGNEE: (SUME)SUMITOMO ELECTRIC IND CO.

PATENT INFO: WO 2000050611 A1 20000831 91p

APPLICATION INFO: WO 1999-JP4634 19990827

PRIORITY INFO: JP 1999-47035 19990224

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

OTHER SOURCE: 2000-549411 [50]

AN AAB22942 Protein DGENE

AA 144A; 107R; 54 N; 83 D; 0 B; 39 C; 111Q; 152E; 0 Z; 112G; 44 H; 57 I; 210L; 109K; 28 M; 87 F; 130P; 218S; 102T; 20 W; 25 Y; 139V; 0 Others

SQL 1971

SEQ

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1 mhpvnfpfggs spsafavsss ttgtyqtksp frfgqpslfg qnstpsksla
51 fsqvpsfatp sggshssslp afgltqtssv glfsslestp sfaatssssv
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151 kpippgesep ektqsqissg fftfshpvgs gsggltpfsf pqvtnssvts
201 ssfifskpvt sntpafaspl snqnveeekr vstsafgssn ssfstfptas
251 pgsllgepfpa nkpslrqgce eaisqveplp tlmkgllrke dqdrsprrhc
301 heaaedpdpl srgdhppdkr pvrlnrprgg tlfgrtiqev fksnkeagrl
351 gskskesgaf aepgesdhaa vpggsqstmv psrlpavtke eesrdeked
401 slrgksvrqs krreewiysl ggvsslelta iqcknipdyl ndrailekhf
451 skiakvgrvf trrskklavi hffdhasaal arkkgkglhk dvvifwhkkk
501 ispskklfpl keklgeseas qgiedspfqh splskpivrp aagsllskss
551 pvkkpsllkm hqfeadpfdg gsegseglgs cvsslstlig tvadtseeky
601 rlldqrdrim rgarvkrtdl dkarafvgtc pdmcpekery lretrsqlsv
651 fevvpgtdqv dhaaavkeys rssadqeep1 phelrpsavl srtmdylvtq
701 imdqkegslr dwydfvwnrt rgirkditqg hlcdpltvsl iekctrfhih
751 cahfmceepm ssfdakinne nmtkclqslk emyqdlrnkg vfcaseaefq
801 gynvlllnlk gdilrevqqf hpdvrnspev nfavqafaal nsnnfvrffk
851 lvqsasylna clhcyfnqi rkdalralnv aytvstqrst vfpldgvvrm
901 llfrdseeat nflnyhgltv adgcvelnrs aflepegclck arksvfigrk
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951 ltvsvgevvv ggplppvprh tpvcfsnqn kyvgeslate lpistqragg
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1001 dpagggrged ceaevdlptl avlpqpppas satpalhvqp lapaaapsll
1051 qastqpevll pkpapvysds dlqvqvdeli qealqvdece vssagaayva
1101 aalgvsnaav edlitaattg ilrhvaeev smerqrleee kqraeeerlk
1151 qerelmltql seglaaelte ltvtecwvew csqelqsavk idqkvrvare

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1201 ceavcahlvd lflaeelfqt aketlqelqc fckylqrwre avaarkkfrr
1251 qmrafpapc cvdvndrlqa lvpsaecpit eenlakgld lghagkvgs
1301 ctrlrrlrnk tahqikvqh hqqlrnaaw apldlpsivs ehlpmkqkrr
1351 fwklvlvlpd veeqtspespq rilenwlkvk ftgddsmvgd igdnagdiqt
1401 lsvfntlssk gdtvsvnvc ikvahgtlsd saldavetqk dllgtsglml
1451 llppkvksee vaeelswls allqlkqllq akpfqpalpl vvlvpssrgd
1501 sagravedgl mlqdlvsakl isdyivveip dsvndlggtv kvsgavqwli
1551 sgcpqaldlc cqtlvqyved gisrefsrrf fhrrerrrla slpsqepsti
1601 ielfnsvlqf lasvvsseq ldiswpvmef aevggsqllp hlhwnspehl
1651 awlkqavlgf qlpqmdlppp gapwlpvcsm viqytsqips ssqtqpvqls
1701 qaelllcrty qkwknkslsp gqelgpsvae ipwddiitlc inhklrdwtp
1751 prlpvtleal sedgqicvyf fknllrkyhv pssweqarmq tqrelqlshg
1801 rsgmrshipp tstfptpllh vhqkgkkkee sgregslste dllrgasae
1851 llaqslsssl leekeenkrf edqlqqwlsq dsqaftestr lplylpqtlv
1901 sfpdsiktqt mvktstspqn sgtgkqlrfs easgssltek lklleriqls
1951 sraeeaaasel hlsallemvd m

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HITS AT: 947-957

L10 ANSWER 13 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAR23122 Protein DGENE

TITLE: Thermostable DNA polymerase from Thermosipho africanus -
prepd. by purificn. from cells or by expression of Taf
polymerase gene in host cells

INVENTOR: Abramson R D; Gelfand D H; Greenfield L; Lawyer F C; Reichert
F L

PATENT ASSIGNEE: (CETU)CETUS CORP.

PATENT INFO: WO 9206202 A 19920416 80p

APPLICATION INFO: WO 1991-US7076 19910926

PRIORITY INFO: US 1990-590490 19900928

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1992-150887 [18]

AN AAR23122 Protein DGENE

AA 36 A; 38 R; 43 N; 55 D; 0 B; 2 C; 24 Q; 85 E; 0 Z; 46 G; 11 H; 71 I;
98 L; 97 K; 19 M; 39 F; 25 P; 54 S; 38 T; 4 W; 47 Y; 60 V; 0 Others

SQL 892

SEQ

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1 mgkmflfdgt glvyrafyai dqslqtssgl htnavygltk mlikflkehi
51 sigkdacvfv ldskggskkr kdiletykan rpstpdille qipyveelvd
101 algikvlkie gfeaddiat lskkfesdfe kvniitgdkd llqlvsdkvf
151 vvrvergtd lvlydrnkvi ekygiypeqf kdylslvgdq idnpgvkgi
201 gkktavslk kynslenvlk ninllteklr rlledskedl qksielveli
251 ydvpmdvekd eiiyrgynpd kllkvllkkye fssiikelnl qeklekeyil
301 vdnedklkkl aeiekyktf sidtettslp pfeaklvgis istmegkayy
351 ipvshfgakn iskslidkfl kqilqekdyn ivgqnlkfdy eifksmgfsp
401 nvphfdtmia aylpndekr fnleelslky lgykmisfde lvnenvplfg
451 ndfsyvpler aveyscedad vtyrifrklg rkienemek lfyeiempli
501 dvlsemelng vyfdeeylke lskkyqekmd gikekvfeia getfnlnsst
551 qvayilfekl niapykktat gkfstnaevl eelskeheia kllleyrkyq
601 klkstyidsi plslnrktmr vhttfhqtgt stgrlsssnp nlqnlptrse
651 egkeirkavr pqrqdwilg adysqielrv lahvskdenl lkafkedldi
701 htitaakifg vsemfvseqm rrvgkmvnfa iiygvspygl skriglsvse
= =====
751 tkkiidnyfr yykgvfeylk rmkdearkkg yvttlfgrrr yipqlrskng
801 nrvqegeria vntpiqgtaa diikiamini hnrlkknrlr skmilqvhde
851 lvfevpdnel eivkdldvrde menavkldvp lkvdvyygke we

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HITS AT: 740-750

L10 ANSWER 14 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAR23174 Protein DGENE

TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease
activity - having conserved regions mutated or deleted, for
use in e.g. PCR, sequencing and detection assays

INVENTOR: Abramson R D; Gelfand D H

PATENT ASSIGNEE: (CETU)CETUS CORP.
PATENT INFO: WO 9206200 A 19920416 185p
APPLICATION INFO: WO 1991-US7035 19910930
PRIORITY INFO: US 1990-590213 19900928
US 1990-590466 19900928
US 1990-590490 19900928
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1992-150885 [18]
AN AAR23174 Protein DGENE
AA 27 A; 28 R; 33 N; 31 D; 0 B; 1 C; 17 Q; 64 E; 0 Z; 28 G; 9 H; 47 I;
60 L; 64 K; 16 M; 28 F; 18 P; 37 S; 27 T; 3 W; 33 Y; 38 V; 0 Others
SQL 609
SEQ

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1 mikelnlqek lekeyilvdn edklkklaee iekyktfsid tettstldpfe
51 aklvgisist megkayyipv shfgaknisk slidkflkqi lqekdynivg
101 qnlkfdyeif ksmgfsnpvp hfdtmiaayl lnpdekrfnl eelslkylgy
151 kmisfdelvn envplfgndf syvplerave yscedadvtv rifrklgkki
201 yenemeklfy eiemplidvl semelngvyf deeylkelsk kyqekmdgik
251 ekvfeiaget fnlnsstqva yilfeklnia pykktatgkf stnaevleel
301 skeheiakll leyrkyqklk styidsipls inrktnrvt tfhqgtstg
351 rlsssnpnllq nlptrseegk eirkavrpqr qdwwilgady sqielrvlah
401 vskdenllka fkedldihti taakifgvse mfvseqmrrv gkmvnfaiiy
451 gvspyglskr iglsvsetkk iidnyfryyk gvfeylkrmk dearkkgyvt
=====
501 tlfgrrryip qlrskngnrv qegeriavnt piggtaadii kiaminihnr
551 lkkenlrskm ilqvhdelvf evpdneleiv kdlvrdenen avkldvplkv
601 dvyygkewe

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HITS AT: 457-467

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	1..2	note "residues 2-284 deleted from the native sequence"

L10 ANSWER 15 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAR23173 Protein DGENE
TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease activity - having conserved regions mutated or deleted, for use in e.g. PCR, sequencing and detection assays
INVENTOR: Abramson R D; Gelfand D H
PATENT ASSIGNEE: (CETU)CETUS CORP.
PATENT INFO: WO 9206200 A 19920416 185p
APPLICATION INFO: WO 1991-US7035 19910930
PRIORITY INFO: US 1990-590213 19900928
US 1990-590466 19900928
US 1990-590490 19900928
DOCUMENT TYPE: Patent
LANGUAGE: English
OTHER SOURCE: 1992-150885 [18]
AN AAR23173 Protein DGENE
AA 28 A; 31 R; 38 N; 37 D; 0 B; 1 C; 18 Q; 73 E; 0 Z; 29 G; 9 H; 53 I;
75 L; 75 K; 17 M; 29 F; 20 P; 43 S; 29 T; 3 W; 38 Y; 44 V; 0 Others
SQL 690
SEQ

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1 mtavslkkky nslenvlkni nllteklrrl ledskedlqk sielveliyd
51 vpmdevkdei iyrqynpdkl lkvllkkyefs siikelnlqe klekeyilvd
101 nedklkklae eiekyktfsi dtettstldpf eaklvgisist tmegkayyip
151 vshfgaknis kslidkflkq ilqekdyniv gqnlkfdyei fksmgfsnpv
201 phfdtmiaay llnpdekrfn leelslkylg ykmisfdelv nenvplfgnd

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251 fsyvplerav eyscedadv yrifrklgkk iyenemeklf yeiemplidv
 301 lsemelngvy fdeeylkels kkyqekmdgi kekvfeiage tfnlnsstqv
 351 ayilfeklni apykktatgk fstnaevlee lskeheiakl lleyrkyqkl
 401 kstyidsipl sinrktnrvh ttfhqtgtst grlsssnpl qnlptrseeg
 451 keirkavrpq rqdwilgad ysqiellrvla hvskdenllk afkedldiht
 501 itaakifgvs emfvseqmrr vgkmvnfaii ygvspyglsk riglsvsetk

====

551 kiidnyfryy kgvfeylkrm kdearkkgyv ttlfgrrryi pqlrskngnr
 601 vqegeriavn tpiqgtaadi ikiaminihn rlkkenlrsk milqvhdelv
 651 fevpdnelei vkdlvrdele navkldvplk vdvyygkewe

HITS AT: 538-548

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	1..2	note "residues 2-203 deleted from the native sequence"

L10 ANSWER 16 OF 19 DGENE (C) 2003 THOMSON DERWENT

ACCESSION NUMBER: AAR23172 Protein DGENE

TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease activity - having conserved regions mutated or deleted, for use in e.g. PCR, sequencing and detection assays

INVENTOR: Abramson R D; Gelfand D H

PATENT ASSIGNEE: (CETU) CETUS CORP.

PATENT INFO: WO 9206200 A 19920416 185p

APPLICATION INFO: WO 1991-US7035 19910930

PRIORITY INFO: US 1990-590213 19900928

US 1990-590466 19900928

US 1990-590490 19900928

DOCUMENT TYPE: Patent

LANGUAGE: English

OTHER SOURCE: 1992-150885 [18]

AN AAR23172 Protein DGENE

AA 28 A; 34 R; 40 N; 44 D; 0 B; 1 C; 21 Q; 76 E; 0 Z; 35 G; 9 H; 59 I;

82 L; 82 K; 17 M; 31 F; 22 P; 45 S; 30 T; 4 W; 42 Y; 52 V; 0 Others

SQL 754

SEQ

1 mdllqlvsdk vfvwrvergi tdlvlydrnk viekygiype qfkdyllslvg
 51 dqidnipgvk gigkktavsl lkkynslenv lkninlltek lrrlledske
 101 dlqksielve liydvpmave kdeiirygyn pdkllkvllk yefssiikel
 151 nlqeklekey ilvdnedklk klaeeiekyk tfsidtetts ldpfeaklv
 201 isistmegka yyipvshfga kniskslidk flkqilqekd ynivgqnlkf
 251 dyeifksmgf spnvphfdtm iaayllnpde krfnleelsl kylgykmisf
 301 delvnenvpl fgndfsyvpl eraveysced advtyrifr lgkkiyenem
 351 eklfyeiemp lidvlsemel ngvyfdeeyl kelskkygek mdgikekvfe
 401 iagetfnlns stqvayilfe klapiykkt atgkfstnae vleelskehe
 451 iakllleyrk yqklkstyid siplslnrkt nrvhttfhqt gtstgrlsss
 501 nplnlqnlptr seegkeirka vrpqrqdwil lgadysqiellrvlahvskde
 551 nllkafkedl dihtitaaki fgvssemfvse qmrrvgkmvn faiiyygspy
 601 glskriglsv setkkiidny fryykgvfey lkrmkdeark kgyvttlfgr

=====

651 rryipqlrsk ngnrvqeger iavntpiqgt aadiikiami nihrllkken

701 lrskmilqvh delvfepdn eleivkdldr demenavkld vplkvdyvyg

751 kewe

HITS AT: 602-612

FEATURE TABLE:

Key	Location	Qualifier
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Misc-difference	1..2	note	"residues 2-139 deleted from the native sequence"
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L10 ANSWER 17 OF 19 DGENE (C) 2003 THOMSON DERWENT
 ACCESSION NUMBER: AAR23171 Protein DGENE
 TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease activity - having conserved regions mutated or deleted, for use in e.g. PCR, sequencing and detection assays
 INVENTOR: Abramson R D; Gelfand D H
 PATENT ASSIGNEE: (CETU)CETUS CORP.
 PATENT INFO: WO 9206200 A 19920416 185p
 APPLICATION INFO: WO 1991-US7035 19910930
 PRIORITY INFO: US 1990-590213 19900928
 US 1990-590466 19900928
 US 1990-590490 19900928
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 1992-150885 [18]
 AN AAR23171 Protein DGENE
 AA 31 A; 34 R; 41 N; 49 D; 0 B; 1 C; 21 Q; 82 E; 0 Z; 38 G; 9 H; 65 I; 86 L; 88 K; 17 M; 34 F; 22 P; 47 S; 32 T; 4 W; 43 Y; 56 V; 0 Others
 SQL 800
 SEQ

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1 myveelvdal gikvlkiegf eaddiiatls kkfesdfekv niitgdkdll
51 qlvsdkvfvw rvergitdlv lydrnkviak ygiypeqgfd ylslvgdqid
101 nipgvkgigk ktavslkkky nslenvlkni nllteklrrl ledskedlqk
151 sielveliyd vpmdevkdei iyrgynpdkl lkvllkkyefs siikelnlqe
201 klekeyilvd nedklkklae eiekyktfsi dtettsl dpf eaklvgis
251 tmegkayyip vshfgaknis kslidkflkq ilqekdyniv gqnlkfdyei
301 fksmgfspnv phfdtmiaay llnpdekrfn leelslkylg ykmsifdelv
351 nenvplfgnd fsyvplerav eyscedadv yrifrklgk iyenemeklf
401 yeiemplidv lsemelngvy fdeeylkels kkyqekmdgi kekvfeiage
451 tfnlnsstqv ayilfeklni apykktatgk fstnaevlee lskeheia
501 lleyrkyqkl kstyidsipl sinrktnrvh ttfhqtgtst grlssnpl
551 qnlptrseeg keirkavrpq rqdwwilgad ysqiellrvla hvskdenllk
601 afkedldiht itaakifgvs emfvseqmrr vgkmvnfaii ygvspyglsk
=====
651 riglsvsetk kiidnyfryy kgvfeylkrm kdearkkgyv ttlfgrrryi
=====
701 pqlrskngnr vqegeriavn tpiqgtaadi ikiaminihn rlkkenlrsk
751 milqvhdelv fevpdnelei vkdlvrde navkldvplk vdvyygkewe

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HITS AT: 648-658

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	1..2	note "residues 2-93 deleted from the native sequence"

L10 ANSWER 18 OF 19 DGENE (C) 2003 THOMSON DERWENT
 ACCESSION NUMBER: AAR23170 Protein DGENE
 TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease activity - having conserved regions mutated or deleted, for use in e.g. PCR, sequencing and detection assays
 INVENTOR: Abramson R D; Gelfand D H
 PATENT ASSIGNEE: (CETU)CETUS CORP.
 PATENT INFO: WO 9206200 A 19920416 185p
 APPLICATION INFO: WO 1991-US7035 19910930
 PRIORITY INFO: US 1990-590213 19900928

US 1990-590466 19900928
 US 1990-590490 19900928
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 1992-150885 [18]
 AN AAR23170 Protein DGENE
 AA 33 A; 36 R; 42 N; 53 D; 0 B; 2 C; 22 Q; 85 E; 0 Z; 41 G; 10 H; 70 I;
 94 L; 97 K; 18 M; 36 F; 25 P; 51 S; 35 T; 4 W; 44 Y; 58 V; 0 Others
 SQL 856
 SEQ

1 mltkmlikfl kehisigkda cvfvldskgg skkrkdilet ykanrpstpd
 51 lileqipyve elvdalgikv lkiegfeadd iiatlskkfe sdfekvniit
 101 gkdllqlvs dkvfvrver gitdlvlydr nkvikeygiy peqfkdylls
 151 vgdqidnpg vkigigktav slkkkynsle nvlkninllt eklrrlleds
 201 kedlqksiel veliydvpmv vekdeiiyrg ynpdkllkvl kkyefsssiik
 251 elnlqeklek eyilvdnedk lkklaeeiek yktfsidtet tsldpfeakl
 301 vgisistmeg kayyipvshf gahnisksls dkflkqilqe kdynivgqnl
 351 kfdyeifksm gfspnvphfd tmiaayllnp dekrfnleel slkylgykmi
 401 sfdelvnenv plfgndfsyv pleraveysc edadvtyrif rklgkkiyen
 451 emekllyeie mplidvlsem elngvyfdee ylkelskkyq ekmdgikekv
 501 feiagetfnl nsstqvayil feklniapyk ktatgkfstn aevleelske
 551 heiakllley rkyqklksty idsiplsinr ktnrvhttfh qtgtstgrls
 601 ssnplqnlp trseegkeir kavrpqrqdw wilgadysqi elrvlahvsk
 651 denllkafke dldihtitaa kifgvsemfv seqmrrvgkm vnfaiiygvs
 701 pyglskrigl svsetkkiid nyfryykgvf eylkrmkdea rkkgyvttlf
 =====
 751 grrryipqlr skngnrvgqg eriavntpiq gtaadiikia minihnrllk
 801 enlrskmilq vhdelvfevp dneleivkdl vrdevenavk ldvplkvdyv
 851 ygwewe

HITS AT: 704-714

FEATURE TABLE:

Key	Location	Qualifier
Misc-difference	1..2	note "residues 2-27 deleted from the native sequence"

L10 ANSWER 19 OF 19 DGENE (C) 2003 THOMSON DERWENT
 ACCESSION NUMBER: AAR23169 Protein DGENE
 TITLE: Thermostable DNA polymerases with altered 5'-3' exo nuclease activity - having conserved regions mutated or deleted, for use in e.g. PCR, sequencing and detection assays
 INVENTOR: Abramson R D; Gelfand D H
 PATENT ASSIGNEE: (CETU) CETUS CORP.
 PATENT INFO: WO 9206200 A 19920416 185p
 APPLICATION INFO: WO 1991-US7035 19910930
 PRIORITY INFO: US 1990-590213 19900928
 US 1990-590466 19900928
 US 1990-590490 19900928
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 OTHER SOURCE: 1992-150885 [18]
 AN AAR23169 Protein DGENE
 AA 36 A; 38 R; 43 N; 56 D; 0 B; 2 C; 24 Q; 85 E; 0 Z; 45 G; 11 H; 71 I;
 98 L; 97 K; 19 M; 39 F; 25 P; 54 S; 38 T; 4 W; 47 Y; 60 V; 0 Others
 SQL 892
 SEQ

1 mgkmflfdgt glvyrafyai dqslqtssgl htnavydltk mlikflkehi
 51 sigkdacvfv ldskggskkr kdilettykan rpstpdllle qipyveelvd
 101 algikvlkie gfeaddiat lskkfesdfe kvniitgdkd llqlvsdkvf
 151 vwrvergita lvlydrnkvi ekygiypeqf kdylslvgdq idnpgvkgi

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201 gkktavslk kynslenvlk ninllteklr rlledskedl qksielveli
251 ydvpmdevkd eiiyrgynpd kllkvkkkye fssiikelnl geklekeyil
301 vdnedklklk aeeiekyktf sidtettsls pfeaklvgis istmegkayy
351 ipvshfgakn iskslidkfl kqilqekdyn ivgqnlkfdy eifksmgfsp
401 nvphfdtmia ayllnpdekr fnleelslky lgykmisfde lvnenvplfg
451 ndfsyvpler aveyscedad vtyrifrklg rkiyenemek lfyeiempli
501 dvlsemelng vyfdeeylke lskkyqekmd gikekvfeia getfnlnsst
551 qvayilfekl niapykktat gkfstnaevl eelskeheia kllleyrkyq
601 klkstyidsi plslnrktnr vhttfhqtgt stgrlsssnp nlqnlptrse
651 egkeirkavr pqrqdwilg adysqielrv lahvskdenl lkafkedldi
701 htitaakifg vsemfvseqm rrvgkmvnfa iiygvspygl skriglsvse
      = =====
751 tkkiidnyfr yykgvfeylk rmkdearkkg yvttlfgrrr yipqlrskng
801 nrvqegeria vntpiqgtaa diikiamini hnrlkknlr skmilqvhde
851 lvfevpdnel eivkdldrde menavkldvp lkvdvyygke we

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HITS AT: 740-750

FEATURE TABLE:

Key	Location	Qualifier
=====	=====	=====
Misc-difference	37	note "Gly in native sequence"

(FILE 'HOME' ENTERED AT 08:13:29 ON 18 JAN 2003)

FILE 'DGENE' ENTERED AT 08:13:42 ON 18 JAN 2003

L1 QUE LSQELAIPYEE
 RUN GETSEQ

L2 RUN STATEMENT CREATED

FILE 'REGISTRY' ENTERED AT 08:15:19 ON 18 JAN 2003

L3 1 S L2

FILE 'DGENE' ENTERED AT 08:15:47 ON 18 JAN 2003

L4 QUE LSXELXIPYEE/SQEFP
 RUN GETSEQ

L5 RUN STATEMENT CREATED

L6 QUE LSXELSIPYEE|LSVRLGXPVKE|LSKRIGLSVSE|LAQNLNIXRKE/SQEFP
 RUN GETSEQ

L7 RUN STATEMENT CREATED

L8 19 DUP REM L7 (0 DUPLICATES REMOVED)

FILE 'REGISTRY' ENTERED AT 08:19:14 ON 18 JAN 2003

L9 QUE LSXELSIPYEE|LSVRLGXPVKE|LSKRIGLSVSE|LAQNLNIXRKE

FILE 'DGENE' ENTERED AT 08:20:00 ON 18 JAN 2003

 RUN GETSEQ

L10 RUN STATEMENT CREATED

FILE 'CAPLUS' ENTERED AT 08:20:30 ON 18 JAN 2003

FILE 'REGISTRY' ENTERED AT 08:21:06 ON 18 JAN 2003

FILE 'DGENE' ENTERED AT 08:21:34 ON 18 JAN 2003

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